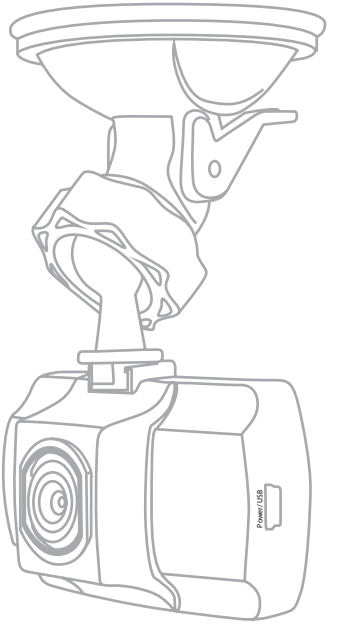
SecurityMan®



User's Guide

Mini HD Car Camera Recorder

with Smart Impact Sensor

Model: Carcam-SDE

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(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

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Introduction

The SecurityMan Carcam-SDE is an easy-to-use high-definition (1080P Full HD) car cam recorder with a 1.5" LCD display and impact sensing recording. It records both audio and video with time & date stamp which can be used to pinpoint exactly when an event occurred. The events are recorded to a Micro SD card which can be used as evidence for auto insurance company if there are any legal complications during an insurance claim. The Carcam-SDE is perfect for all motorists and it is budget-friendly.

Features

- HD video quality and real time recording (30fps)
- Auto recording, video motion detection recording, and manual recording (video or snapshot) modes
- Smart impact sensing recording (non-overwritable video) and locks up previous, current, and post impact sensing video clips
- Records up to 367/163 total minutes (at QVGA/1080P) on a 32GB micro SD (not included)
- Auto overwrite when SD is full (for regular recording)
- Built-in microphone and speaker
- 120 degree wide angle lens
- Has zoom capabilities up to 4x original view
- Records 30-second, 1-min, or 3-min continuous video clips
- Built-in rechargeable battery for up to 1 hour usage (recording)

Important

This guide provides important information on the use and operation of your Carcam-SDE™ and the images/features shown throughout the manual are subject to change without notice due to system and firmware upgrades. Please read all the information carefully prior to using the product for the best performance and to prevent any damage/injuries or misuse of the device(s). Customers are entitled to have read through this complete user's manual before using the Carcam-SDE™. Any unapproved changes or modifications will void your warranty. Please ensure to have a complete understanding of the following restrictions.

NOTE: Please check your state laws and regulations to determine if windshield mounting is legal in your state.

Restrictions

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages. Retain and follow all product safety and operating instructions. Observe all warnings in the product operating instructions. To reduce the risk of bodily injury, electric shock, fire and damage to the equipment, observe the following precautions.

PLEASE NOTE that under certain circumstances, audio/video recording may be PROHIBITED by law. This device should be used only in compliance with all applicable federal, state and local statutes.

• **DO NOT** use this product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

• **DO NOT** place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

• **DO NOT** disassemble this product. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock during subsequent use.

• **DO NOT** use this product to infringe on one's privacy, spying intercepting and related activities are illegal and punishable by law. Monitoring one's private activities without consent is illegal and this product is not designed or manufactured for these purposes.

• **DO NOT** use this product to carry out any illegal activities such as sneak preview, etc. SecurityMan shall not be responsible for any consequences of illegal conducts made by users.

• **DO NOT** put the plastic packaging bags in reach of children or babies. Plastic bags can create a suffocation hazard when placed over the nose and mouth.

• **DO NOT** plug the AC adapter into the outlet in improper situations.
  - Plugging in an AC adapter with wet hands might cause electric shock.
  - Plugging in the AC adapter unsteadily might cause fire or electric shock.

• **DO NOT** cover the AC adapter when it is connected to an outlet, place the adapter near heaters, or put it on the floor which is equipped with a heater. The above mentioned operation might cause fire or incidents.

• **DO NOT** put the plastic packaging bags in reach of children or babies. Plastic bags can create a suffocation hazard when placed over the nose and mouth.

- **DO NOT** plug in the car cigarette lighter adapter with wet hands might cause electric shock.

- **DO NOT** cover the car cigarette lighter adapter when it is connected to an outlet, place the adapter near heaters, or put it on the floor which is equipped with a heater. The above mentioned operation might cause fire or incidents.

Disclaimers

• Please make sure that you are following the regulations and laws set by your states DMV (Department of Motor Vehicles) prior to mounting your camera. This manual does not intent to provide any specific legal advice.
• Please check the Carcam-SDE's features periodically to ensure that it is operating as required.
• During a car accident, the impact of the collision must be hard enough to trigger the G-Sensor In order for the Carcam-SDE's to begin recording.
• Please use the Carcam-SDE™ as a tool while driving and use driver's safety while driving.
• SecurityMan Inc shall not be held responsible for any traffic violations related to the positioning or improper use of our product.
• Avoid mounting the camera outside of an airbag deployment zone.
• All vehicles must use the included warning stickers when using the Carcam-SDE™ which must be visible to all passengers.
• Knowing most vehicles runs off 12VDC power supply from the battery, please double check our cigarette power adapter's output rating before attempting to run power directly from the car battery.

Conditions

Please read the following messages to make sure your working environment is suitable.
• If your vehicle does not cut off power to your cigarette lighter port, then you may have to manually turn off or unplug the charger to prevent it from overheating.
• The temperature should be kept between −10°C and 50°C (14°F to 122°F). The relative humidity should be kept between 20% and 80%.
• Avoid putting the product in places where temperature or humidity may change rapidly.
• Keep it dry, dustless and avoid lens exposure in direct sunlight.
• Keep product away from heat sources such as electric heaters.
• Do not use the camera near harmful chemicals.
• Do not place product near any strong magnetic objects
• It might influence the normal operation of the product if used at the fringe range of normal temperature. Please turn off the power when not in use.
• Do not disassemble the product.
• Do not shake or strike the product.
• Please obey the local government's environment protection policy.

Package Contents

1x Carcam-SD

1x Suction Cup

2x Warning Stickers
Must be used and
visible to all passengers

1x Car Charger

1x USB Cable

Micro SD card not
included
(supports up to 32GB)

User's Manual

Product Basics

01. Up (Zoom in / FastForward)
02. Menu
03. Down (Zoom out / Rewind)
04. Power/USB
05. Lens
06. Speaker
07. REC/OK
08. Mode (Video lock)
09. ON/OFF
10. 1.5" LCD screen
11. Micro SD card slot
12. Bracket socket
13. Reset
14. Microphone

Quick Start

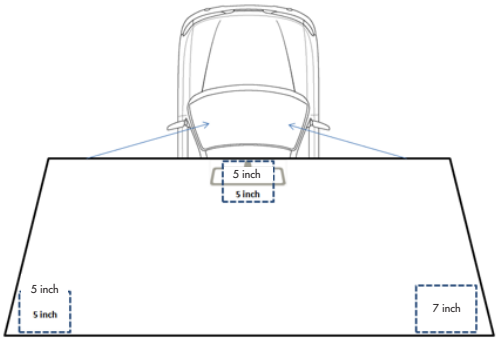
MOUNTING THE CAMERA

Please make sure that you are following the regulations and laws set by your states DMV (Department of Motor Vehicles) prior to mounting your camera. This will avoid any accidents and traffic violations that can occur if the camera is mounted in a location that is prohibited by law.

NOTE: SecurityMan Inc shall not be held responsible for any traffic violations related to the positioning or improper use of our product.

1. Determine where you will be mounting the camera. The following diagram depicts mounting locations on a vehicle based in the state of California and its restrictions.

NOTE: According to CA VC Section 26708 (13) (A) "A video event recorder with the capability of monitoring driver performance to improve driver safety, which may be mounted in a **seven-inch square** in the lower corner of the windshield farthest removed from the driver, in a **five-inch square** in the lower corner of the windshield nearest to the driver and outside of an airbag deployment zone, or in a **five-inch square** mounted to the center uppermost portion of the interior of the windshield. As used in this section, "video event recorder" means a video recorder that continuously records in a digital loop, recording audio, video, and G-force levels, but saves video only when triggered by an unusual motion or crash or when operated by the driver to monitor driver performance."



INTERIOR VIEW OF THE WINDSHIELD
(Based on California's vehicle code restriction & requirement)

2. Using the suction cup and rotating bracket, mount the Carcam-SDE™ to the inside of your vehicles windshield (use the adjustment knob to loosen and tighten the Carcam-SDE™ as needed).

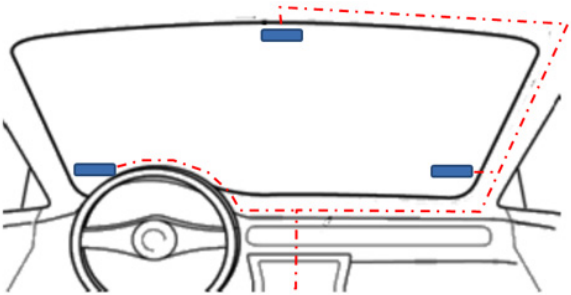
NOTE: The Carcam-SDE™ can also be used to record both exterior and interior (front and rear) of your vehicle. For interior recording, simply follow the steps above and rotate the camera so that the lens is facing the inside of your vehicle.

INSERT THE SD CARD

Insert your micro SD card into the Carcam-SDE™'s micro SD slot. Make sure that you insert the in the correct direction as shown. The SD card will make a clicking sound, indicating it has been locked into the Carcam.

Connecting the power cable

1. Depending on where you've chosen to mount the Carcam-SDE™, run the power cable around the trim of your vehicle so that it will not obstruct your view while driving.



2. Insert the car charger into your vehicles cigarette lighter port as shown. A red light on the car charger will light up, indicating it is connected.

TURNING THE CAMERA ON

The two ways in turning on your Carcam-SDE™:

1) Start your vehicle and the Carcam-SDE™ will automatically turn on and **begin recording.**

2) Press the power button manually to turn on the Carcam-SDE™

NOTE: The Carcam-SDE™ will automatically turn on/off whenever your vehicle turns on/off, respectively.

LIGHT INDICATORS

Battery Charging Light (Red) Power Light (Blue)

On	Power is on (Red).	On	Carcam battery is currently charging (Red).	Off	Carcam is currently on (No light).
On	Battery is currently charging (Blue).	Off	Power is off (No Light).	On	Battery is fully charged (Blue).

BASIC OPERATIONS

SET DATE & TIME

1. Turn on your Carcam
   • Press and hold the Power button until the "Welcome" screen appears
2. Press the Menu button twice to get to "Setup" menu
   • **If there is a SD card already inserted,** press the Menu button until the "Setup" settings appears on the screen
   • **If there is no SD card,** wait for the "Please Insert SD Card" message to disappear, and then press the Menu button until the "Setup" Settings appears
3. Select the **Date/Time**
   • Press the "Down" button until **Date/Time** option is highlighted
   • Press the "OK" button
4. Change the Date/Time
   • Use the **"Up"** and **"Down"** buttons to change the date and the time
   • Use the **"Mode"** button to scroll through the selection

FORMAT YOUR SD CARD

1. Turn on your Carcam
   • Press and hold the Power button until the "Welcome" screen appears
2. Press the Menu button
   • **If there is a SD card already inserted,** press the Menu button until the "Setup" settings appears on the screen
   • **If there is no SD card,** wait for the "Please Insert SD Card" message to disappear,

and then press the Menu button until the "Setup" Settings appears
3. Select the Format option
   • Press the "Down" button until **"Format"** option is highlighted
4. Confirm Formatting
   • Press "OK" to confirm your SD Card to be formatted

CHANGE TO DEFAULT SETTINGS

1. Turn on your Carcam
   • Press and hold the Power button until the "Welcome" screen appears
2. Press the Menu button
   • **If there is a SD card already inserted,** press the Menu button until the "Setup" settings appears on the screen
   • **If there is no SD card,** wait for the "Please Insert SD Card" message to disappear, and then press the Menu button until the "Setup" Settings appears
3. Select the "Default Setting" option
   • Press the "Down" button until **"Default Setting"** option is highlighted
5. Confirm "Default Setting"
   • Press "OK" to confirm your Carcam will switch back to its default settings

BUTTONS & SETTINGS

BUTTONS

UP/ZOOM IN
The UP/ZOOM IN button is used to navigate through out the menu and make setting selections. It can also Zoom-In up to 4x its original distance while in video or photo mode.

MENU
The MENU button allows access your Carcam menu settings. Pressing the Menu button again will exit you out of the menu settings. While in the Video mode, you may access the Video and System settings. While in Photo mode, you may access the Photo and System settings. While in Playback mode, you may access the Playback and System settings.

DWN/ZOOM OUT
The DOWN/ZOOM OUT button is used to navigate through out the menu and make setting selections. It is also used to Zoom-out while in video or photo mode.

REC/OK
The REC/OK button is used to start and stop manual recording while in Video mode. It is also used to take pictures while in Photo mode. It can be used to make setting changes and select which event to view during playback.

MODE/LOCK
The MODE button is used to switch between Video, Photo and Playback. This function also locks the current video recording on your Carcam. By locking the video file, it will prevent the file from being manually deleted.

POWER
The power button is used to manually turn the Carcam-SDE™ on or off when needed, but in most cases the Carcam-SDE™ will automatically turn itself on and off whenever the vehicle does.

SETTINGS

The Carcam-SDE's settings are divided into 4 categories: Video settings, Photo settings, Playback settings, and Setup settings.

NOTE: The "Setup" settings can be accessed from The Video, Photo, and Playback settings.

VIDEO SETTINGS

The Video configuration menu consists of settings and options that are used to configure the Carcam-SDE's video recording settings. In the Video mode, press the "Menu" button to open up the Video configuration menu.

VIDEO SETTINGS

The Video settings consist of the following configuration options.

- **Resolution –** Video resolution configuration.
- **Loop Recording –** Overwrite configuration.
- **Exposure –** Adjust the amount of light that will affect your image sensor.
- **Motion Detection –** Enables/Disables motion detection recording.
- **Record Audio –** Enables/Disables audio recording.
- **Date Stamp –** Enables/Disables date stamp on recorded events.
- **G-Sensor –** G-force sensor configuration.

RESOLUTION

The **Carcam-SDE™** supports various video resolutions that you can select from. The higher the resolution, the better your video quality and the bigger the video size will be.
Use the UP/DOWN keys to scroll through the options. Press the REC/OK button to select your desired settings. The available options include:

- **1080FHD** (1920x1080) (default)
- **1080P** (1440x1080)
- **720P** (1280x720)
- **WVGA** (848x480)
- **VGA** (640x480)
- **QVGA** (320x240)

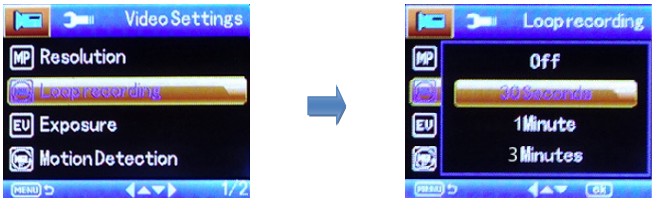
LOOP RECORDING

The loop recording option serves as two features: "Overwrite" & "Segment Length". The overwrite feature allows the DVR to delete previously recorded events in increments when the SD card becomes full. The **segment length** feature is the length each recorded event can be before generating a new file. Use the UP/DOWN keys to scroll through the options. Press the REC/OK button to select your desired settings. The available options include:

- **Off** – Disables overwrite and enables the default 24 hour segment recording.

NOTE: Setting this feature to off will create on long video which will stop recording as soon as the file exceeds the memory cards capacity.

- **30 Seconds** (default) – Enables the DVR to record/overwrite in 30 second increments
- **1 Minutes** – Enables the DVR to record/overwrite in 1 minute increments
- **3 Minutes** – Enables the DVR to record/overwrite in 3 minute increments



EXPOSURE

The exposure option lets you select the numeric exposure value for your video recording. The exposure feature consists of the following options:

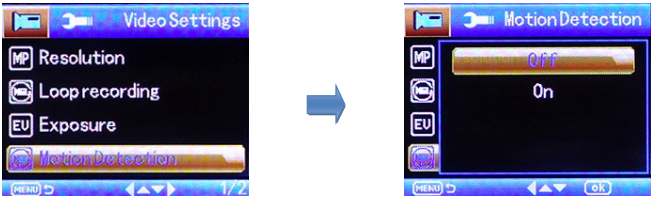
- +2.0
- +5/3
- +4/3
- +1.0
- +2/3
- +1/3
- +0.0 (default)
- -1/3
- -2/3
- -1.0
- -4/3
- -5/3
- -2.0

MOTION DETECTION

The motion detection option is used to enable/disable motion detection recording. While the Carcam is on, and the Carcam is on standby, any movement in front of it will trigger a recording. The Motion Detection feature consists of the following options:

- **Off/Disable**(default)
- **On/Enable**

NOTE: Make sure the "Auto Power Off" function is set to "Off" to let the Carcam stay on during standby mode. When motion detection is active or turned ON, the G sensing will be deactivated. Please make sure motion detection is turned OFF for G1 and G2 sensor to function properly.



RECORD AUDIO

The record audio option is used to enable/disable audio recording. A "Mic" symbol will appear on the recording screen to indicate that audio recording is enabled. The record audio feature consists of the following options:

- **Off/Disable**
- **On/Enable** (default)

NOTE: Some states prohibit the use of audio recording. Please make sure you contact your local law enforcement agency if you are unclear on your state laws and guidelines.

DATE STAMP

The date stamp option is used to enable/disable the date & time stamp from being displayed on playback videos. The date stamp feature consists of the following options:

- **Off/Disable**
- **On/Enable** (default)

G-SENSOR

The G-Sensor option is used to enable/disable the Carcam's G-force/impact sensor which will lock the previous, current, and post files from being deleted by the overwrite feature. The G-force acts as a sensor for the Carcam to secure any video files recorded in the event that the vehicle gets hit. Any force that is acted upon the vehicle will result in locking the current recording video file.

NOTE: Formatting the SD card will result in erasing all files, including the locked video files. Please also note on G-Sensor occurrence, the post locked file will have a 3 seconds initial delay time.

The G-Sensor feature consists of the following options:

- **Off/Disable**
- **1G** (default)- Represents 9.81m/s2 of force. The 1G force is more sensitive to lock the video files on impact than that of 2G setting.
- **2G-** Represents 19.62m/s2 of force. The 2G is less sensitive than that of the 1G setting. This setting requires more force to start G-sensing recording and files locking. Note, if 1G is too sensitive please use 2G.

SETUP SETTINGS

The Setup menu configures the Carcam-SDE's system settings such as date and time, language, default settings, etc. It can be accessed from the Video, Photo, and Playback mode. Press the Menu button twice to access the Setup menu.

SETUP SETTINGS

The Setup settings consist of the following configuration options.

- **Date/Time** – Date and Time configuration.
- **Auto Power Off** – Auto System Shut Off configuration.
- **Beep Sound**– Enables/Disables beep notifications.
- **Language**– Language settings.
- **Backlight**– Backlight/screensaver duration configuration.
- **Frequency** – Light frequency configuration.
- **Flip Screen**– Flips your screen upside-down.
- **Format**– Formats your SD card.
- **Default Settings**– Restores the Carcam-SDE™ to its factory default settings.
- **Version**– Displays Firmware information.

DATE/TIME

The date/time option is used to set and configure the Carcam-SDE's current date and time format. The button configurations are listed and described below:

- **UP/DOWN** – Use these to scroll through each selection
- **MODE** – This button scrolls through the date and time (i.e. Month to Day to Year, etc.)
- **REC/OK** – Press this button to accept and save your date/time.

AUTO POWER OFF

The auto power off option is an auto shut-down feature which, after a set time frame of inactivity (not recording) or standby, the Carcam shuts off. The auto power off feature consists of the following options:

- **Off**
- **1 Minute** (default)
- **3 Minutes**

BEEP SOUND

The beep sound controls the "beep" sound that can be heard every time a button on the Car-cam-SDE™ is pressed. The beep sound feature consists of the following options:

- **On/Enable** (default)
- **Off/Disable**

LANGUAGE

The language option lets you change the language of the Carcam. The language feature consists of the following options:

- **English (default)**
- **French**
- **Spanish**
- **Portuguese**
- **Dutch**
- **Italian**
- **Chinese**
- **Russian**
- **Japanese**

SCREENSAVER

The backlight option controls the time you want your screen to stay on before the screen turns off during video recording. For safety purposes, it is recommended for the screen on the Carcam to not stay on while the vehicle is in motion. The backlight feature consists of the following option:

- **Off**
- **30 Seconds** (default)
- **1 Minute**
- **2 Minutes**

FREQUENCY

The frequency option switches between the two most commonly used refresh rates "60Hz" and "50Hz". By default the Carcam-SDE™ is set to 60Hz which is standard for United Sates and Japan. The frequency feature consists of the following options:

- **50Hz** – Standard for Europe and China.
- **60Hz** (default) – Standard for United Sates and Japan.

FLIP SCREEN

The image rotation flips the screen, vertically. This provides the option of having the Carcam mounted upside down. The image rotation setting feature consists of the following options:

- **Off** (default)
- **On** – Selecting this option flips the screen

FORMAT

The format setting option is used to erase all files inside your SD card, including protected files. The format feature consists of the following options:

- **Cancel**
- **Ok**

DEFAULT SETTING

The default setting option is used apply the Carcam-SDE's manufacturer default settings. The default setting feature consists of the following options:

- **Cancel**
- **Ok**

VERSION

The version option is used to view the Carcam-SDE's firmware.

NOTE:

UPDATING FIRMWARE

1) To update your Carcam's firmware, make sure you have the firmware file downloaded and pasted it into the root of the micro SD card on your PC.
2) Insert the micro SD card into your Carcam device.
3) Turn on the Carcam. The power light will turn on and the screen will remain black.
4) Wait for the firmware to install into the Carcam
5) Once complete, the Carcam screen will display its welcome screen
6) To check if the firmware has been updated, go into the Setup Settings menu and check the "Version"

NOTE: Please remember to remove the firmware file from your micro SD card to prevent the firmware from flashing every time you restart your Carcam device.

PHOTO SETTINGS

The Camera configures the Carcam-SDE's photo snapshot settings. In the Photo mode, press the "Menu" button to open up the Camera configuration menu.

CAMERA SETTINGS

The Camera settings consist of the following configuration options.

- **Capture Mode** – Used to configure single or timed snapshots.
- **Resolution** – Photo resolution configuration.
- **Burst Mode** – Burst mode option.
- **Sharpness** – Image sharpness configuration.
- **White Balance** – White balance configuration.
- **Exposure** – Image exposure adjustment.
- **Quick Review** – Enables/Disables quick review.
- **Date Stamp** - Enables/Disables date stamp on recorded events.

CAPTURE MODE

The capture mode option lets you configure how the Carcam-SDE™ will operate every time the snap shot button is pressed. For example, you can set it to take an instant snap shot every time or you can implement a timer delay which will automatically take a snap shot when the set time has expired. The capture mode feature consists of the following options:

- **Single** (default)
- **2S Timer**
- **5 S Timer**
- **10 S Timer**

RESOLUTION

The Carcam-SDE™ supports various "Mega Pixel" resolutions that you can select from. The resolution feature consists of the following options:

- **1MP** (default)
- **VGA**

BURST MODE

The burst mode option lets you enable the "multiple shot" option. When you take a snapshot, it will take multiple shots in a single take, up to 5 pictures. The burst mode feature consists of the following options:

- **Off** (default)
- **On**

SHARPNESS

The sharpness option lets you select the image sharpness of the photos being taken. They make edges appear more defined by darkening the darker pixels and brightening the brighter pixels. The sharpness feature consists of the following options:

- **Strong**
- **Normal** (default)
- **Soft**

WHITE BALANCE

The white balance option lets you remove unrealistic color casts, so that objects which appear white in person are rendered white in your photo. The white balance feature consists of the following options:

- **Auto** (default)
- **Daylight**
- **Cloudy**
- **Tungsten**
- **Fluorescent**

EXPOSURE

The exposure option lets you select the numeric exposure value for your snap shots. The exposure feature consists of the following options:

- **+2.0**
- **+5/3**
- **+4/3**
- **+1.0**
- **+2/3**
- **+1/3**
- **+0.0** (default)
- **-1/3**
- **-2/3**
- **-1.0**
- **-4/3**
- **-5/3**
- **-2.0**

QUICK REVIEW

The quick review option lets you preview images you've just taken for a short amount of time. The quick review feature consists of the following options:

- **Off** (default)
- **2 Seconds**
- **5 Seconds**

DATE STAMP

The date stamp option lets you enable or disable the time stamp from being displayed on all the photos. The date stamp feature consists of the following options:

- **Off**
- **Date**
- **Date/Time** (default)

PLAYBACK SETTINGS

The Playback settings menu provides actions for video clips or photos that have been recorded in the Carcam. In the Playback mode, press the "Menu" button to open up the Playback configuration menu.

PLAYBACK SETTINGS

The Playback settings consist of the following configuration options.

- **Delete** – Delete video/photo files
- **Protect** – Protect video/photo files
- **Slide Show** –View photos in slide show mode

DELETE

This option allows you to delete video or photo files in your SD card. You may choose to delete one file at a time or delete all simultaneously. The available options include:

- **Delete Current** – Delete selected video/photo
- **Delete All** – Delete all videos and photos in the Carcam

NOTE: Any protected files will not be deleted if "Delete All" is selected

PROTECT

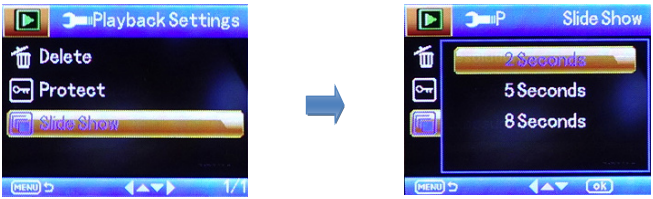
The Protect option helps prevent any video files or photo files from being deleted. When selecting "Delete All", the protected file will not be erased.
NOTE: When "Formatting" the SD card, protected files will also be erased.
The available options include:

- **Lock Current** – Protects the selected file.
- **Unlock Current** – If the file is already protected, selecting this option will unprotect the file.
- **Lock All** – Locks all files on the SD card.
- **Unlock All** – Unlocks all files on the SD card.

SLIDE SHOW

The Slide Show option lets viewers view the photos in a slide show mode. Selecting one of the timer options transitions the Carcam into a slide show. The picture will be displayed for a certain amount of time and then shows the next picture automatically. The available options include:

- **2 Seconds** – Shows each picture for 2 seconds
- **5 Seconds** – Shows each picture for 5 seconds
- **8 Seconds** – Shows each picture for 8 seconds



PLAYING BACK VIDEOS

You can play back recorded events using two methods; directly from the Carcam-SDE™ or on a computer.

CARCAM-SDE

To play back events directly from the Carcam-SDE™, navigate to the playback screen using the Mode button. You can use the following buttons to play back and delete the recorded events:

NOTE: Traffic lights may flash during playback.

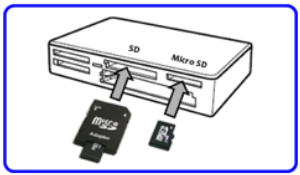
	ACTION	DESCRIPTION
REC/OK	Press once (when not playing back video)	- Selects the highlighted event to play back/view - Confirm an option when prompted
	Press once (during video play back)	- Pause the video.
Mode	Press once	- Switches to "Video" mode
Up	Press once (during multiple file view)	- Used to navigate through the recorded events.
	Press once (during video play back)	- Fast forward the video
Down	Press once (during multiple file view)	- Used to navigate through the recorded events.
	Press once (during video play back)	- Rewind the video.

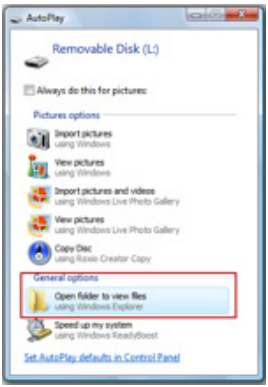
COMPUTER

To playback recorded video on a PC or Mac:

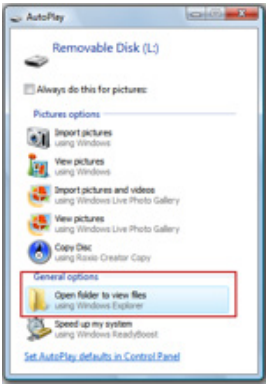
1. Remove the Micro-SD card from the camera by gently pushing on the SD card allowing it to pop out from its slot.

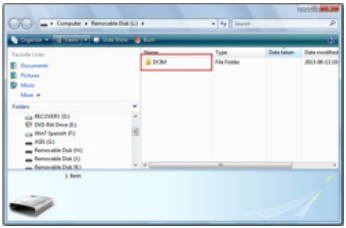
2. Insert the Micro-SD card into a Micro-SD card reader (not included) connected to your PC (your PC should load the SD card as a new Removable Drive).



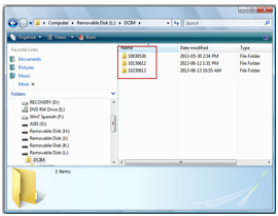


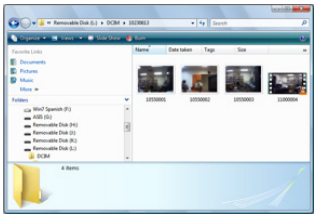
3. When prompted, select the "Open folder to view files" option to view its contents (you should see a folder labeled DCIM).





4. Open the DCIM folder to view a list of all the recorded event folders. Once inside the dated folder you can double-click any of the recorded AVI or JPG files to open them up in your default media player.

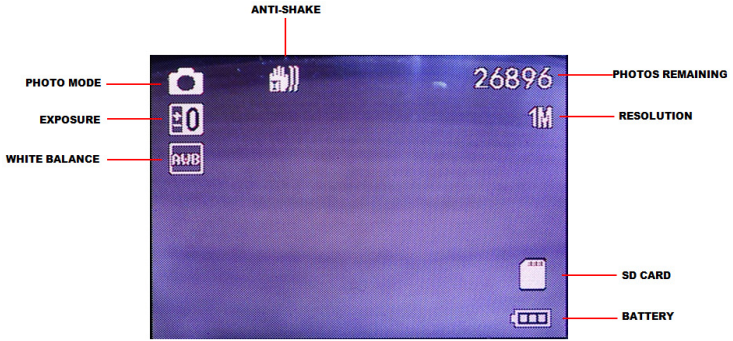




On-Screen Display

LIVE VIEW VIDEO

LIVE VIEW PHOTO



PLAYBACK SCREEN

Specifications

LCD size	1.5" TFT LCD
Image sensor	Digital HD color CMOS
Viewing angle	120°A+ grade high-resolution ultra wide-angle
Language for options	English/Deutsch/French/Spanish/Italian/Portugal/Traditional Chinese/Simplified Chinese/Pyccknn/ Japanese
Video resolution	1920x1080FHD, 1440x1080P, 1280x720P, 848x480P, VGA640x480P,& QVGA320x240P
Video/Photo formats	AVI/JPEG
Recording video format	M-JPEG
Photo pixels	1.0M
SD slot	Micro SD card (supports up to 32GB, class 6 or above)
Overwrite	Yes
Microphone	Built-in (Menu: On/Off)
Speaker	Built-in
Recording frame rate	30fps
Video recording mode	*Auto record when the ignition is turned on and stop when engine is turned off (with car cigarette lighter cable connected) *Manual record by pressing REC button *Video Motion Detection recording
Shooting mode (photo)	Single, 2s timer, 5s timer, 10s timer, & Burst Mode (5 consecutive shots)
Frequency	60Hz/50Hz
TV standard	NTSC/PAL
USB port	USB 2.0
PC mode (via USB)	Mass Storage or PC Camera
Power supply	Input: DC12V-24V, Output: 5VDC / 500mAh
Rechargeable battery	3.7V / 200 mAh (Charging time: 2 hrs. Recording time: 1 hr)
Camera size (LxWxH)	2.6"x1.6"x1.2"(without bracket)
Operating temperature	-10°C to 50°C (14°F~122°F)
Non-Operating temperature	-20°C to 65°C (-4°F~149°F)
Operating humidity	≤85% RH
Operation system	Windows 2000, XP, Vista, 7, & 8 / MAC OS 10.7 or above (SD card)

If you encounter any difficulty in the operation of this product after reading the manual, please feel free to contact us. You can reach us by phone at 1-888-977-3777 from 8:30 AM to 5:30 PM Monday through Friday (Pacific Standard Time) or by email techsupport@securitymaninc.com. We will be happy to answer your questions and help you in any way we can.

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